|  |  |
| --- | --- |
| **Ex.No:11.b** | **MEMORY ALLOCATION METHODS FOR FIXED PARTITION** |
| **WORST FIT** |

# AIM:

To write a C program for implementation of FCFS and SJF scheduling algorithms.

# ALGORITHM:

Step 1:Define the max as 25.

Step 2: Declare the variable frag[max],b[max],f[max],i,j,nb,nf,temp, highest=0, bf[max],ff[max]. Step 3: Get the number of blocks,files,size of the blocks using for loop.

Step 4: In for loop check bf[j]!=1, if so temp=b[j]-f[i]

Step 5: Check temp>=0,if so assign ff[i]=j break the for loop. Step 6: Assign frag[i]=temp,bf[ff[i]]=1;

Step 7: Repeat step 4 to step 6.

Step 8: Print file no,size,block no,size and fragment. Step 9: Stop the program.

# PROGRAM:

#include<stdio.h> #include<conio.h> #define max 25 void main()

{

int frag[max],b[max],f[max],i,j,nb,nf,temp; static int bf[max],ff[max];

clrscr();

printf("\n\tMemory Management Scheme - First Fit"); printf("\nEnter the number of blocks:"); scanf("%d",&nb);

printf("Enter the number of files:"); scanf("%d",&nf);

printf("\nEnter the size of the blocks:-\n"); for(i=1;i<=nb;i++)

{

printf("Block %d:",i);

scanf("%d",&b[i]);

}

printf("Enter the size of the files :-\n"); for(i=1;i<=nf;i++)

{

printf("File %d:",i);

scanf("%d",&f[i]);

}

for(i=1;i<=nf;i++)

{

for(j=1;j<=nb;j++)

{

if(bf[j]!=1)

{

temp=b[j]-f[i]; if(temp>=0)

{

ff[i]=j; break;

}

}

}

frag[i]=temp; bf[ff[i]]=1;

}

printf("\nFile\_no:\tFile\_size :\tBlock\_no:\tBlock\_size:\tFragement"); for(i=1;i<=nf;i++) printf("\n%d\t\t%d\t\t%d\t\t%d\t\t%d",i,f[i],ff[i],b[ff[i]],frag[i]); getch();

}